

1. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1.1) as $\epsilon \rightarrow 0$. It is shown that the solutions of the system (1.1) converge to the solutions of the system (1.2) in the sense of the weak convergence in the space $L^2(\Omega; \mathbb{R}^n)$.

Summary

15

(Fig. 14)